iGame450-1024M D5 Buri-Slim (N450-105-B01)

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Model Name

iGame450-1024M D5 Buri-Slim (N450-105-B01)

Specification

Chipset	GPU	**NVIDIA GeForce GTS 450 (GF106)**
	Manufacturing Process	40 nm
	CUDA cores	192

Clock Speeds	**Core Clock**	783 MHZ
	Shader Clock	1566 MHz
	Memory Clock	3608 MHZ
Memory	**Memory Size**	1024 MB
	Memory Interface	128 BIT
	Memory Type	GDDR 5
Interface and Connectors	**Video Outport**	DVI+ DVI +Mini HDMI
	PCI Express	2.0
	Additional Power Connectors	1*6 pin
	SLI	1 (2-way)
Thermal	**Board Power (Idle / Load)**	41.8W / 142.49 W
	TDP (NVIDIA)	106 W
	Temperature (Idle / Load)	34℃(GPU-Z) / 80℃(Furmark) *Note1
Cooling	**Type**	With Fan (7 cm in diameter)
	Fan Speed	1700-4800 RPM ± 10%
	Acoustical Noise	25-54.3 dBA *Note2
	Fan Power Connector	4-pin, PWM
3D API	**DirectX /Shader Model**	11 / 5.0
	OpenGL	4.0
Others	**Featured Technologies**	
	Form Factor	Dual Slot
	Packaging	1* Graphics Card, 1* User's Guider, 1* Driver CD, 1* 4- pin to 6-pin PCI-E power adaptor

Note 1: ***The temperature is read from the software like GPU-Z and Furmark, and the data may not exactly show the actual electrical thermal status of the graphics card. Usually when tested by the infrared thermometer, the figures are always higher than those shown by software. However, considering few DIY users may use an infrared thermometer at hand to test the card's temperature, we give the software-based***

data here for reference, which should be more meaningful to most users.

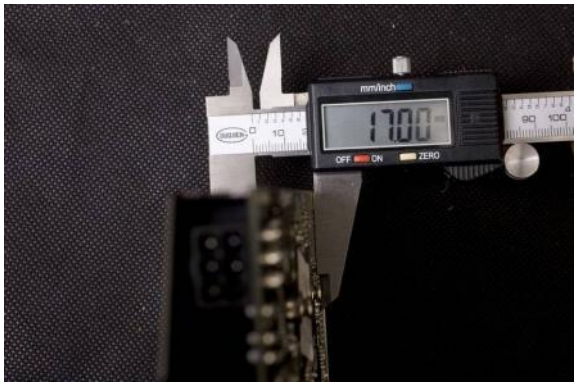
Note 2: *The acoustical data is the tested noise of the cooling Fan only, and the graphics card especially equipped in a particular PC case running in a certain room, the acoustical noise may be higher than the given figures here.*

Parts of the card

The Card

45 ° View

Ports: Mini HDMI + DVI + DVI



Thickness: 17mm

Thickness compared with iPhone 4

6-pin additional power connector

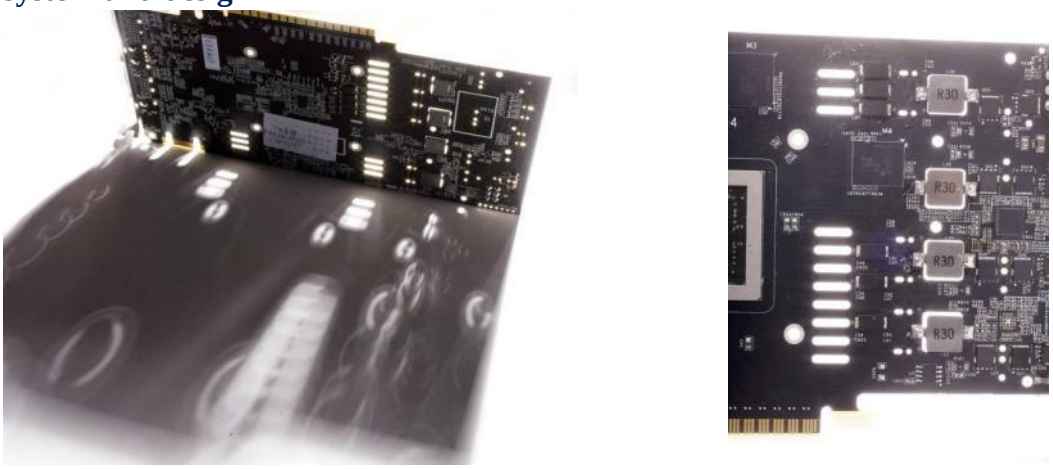
The thermal design power (TDP) of GTS450 is 106W, so it is still equipped with an additional 6-pin power connector.

SLI Bridge

GTS450 supports 2-way SLI, and when SLI is enabled it also supports gaming across three 3D displays with

resolutions up to 2560x1600.

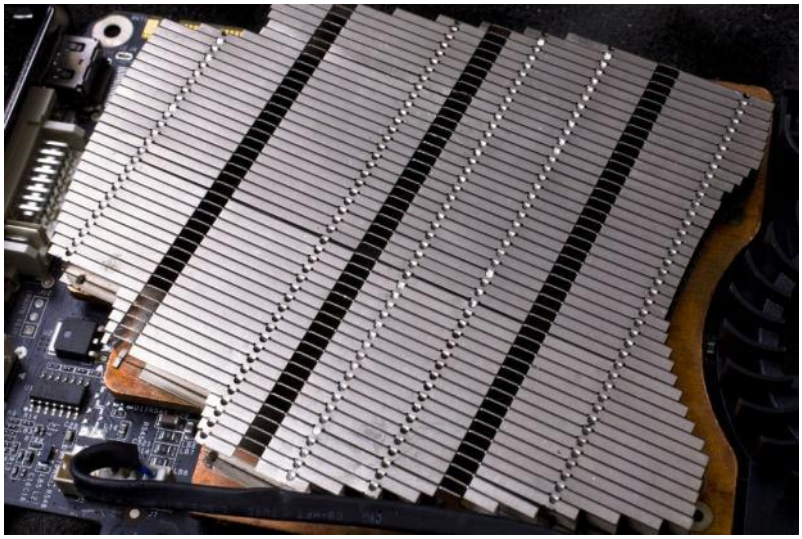
Cooling system and design



PCB with hollow-out TSD(Threading Structure Design): 56% increase in air ventilating

Cooling System with slanting fins

Cooper-based Radiator and exposed vents

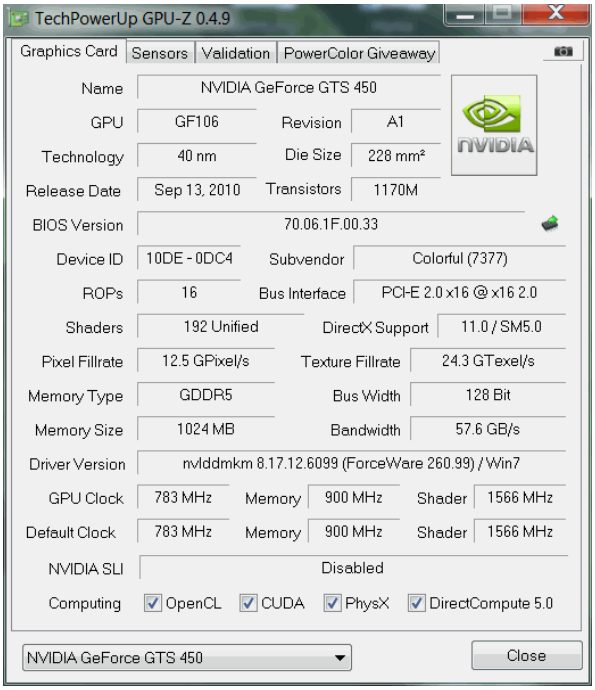


Slanting Cooling Fins

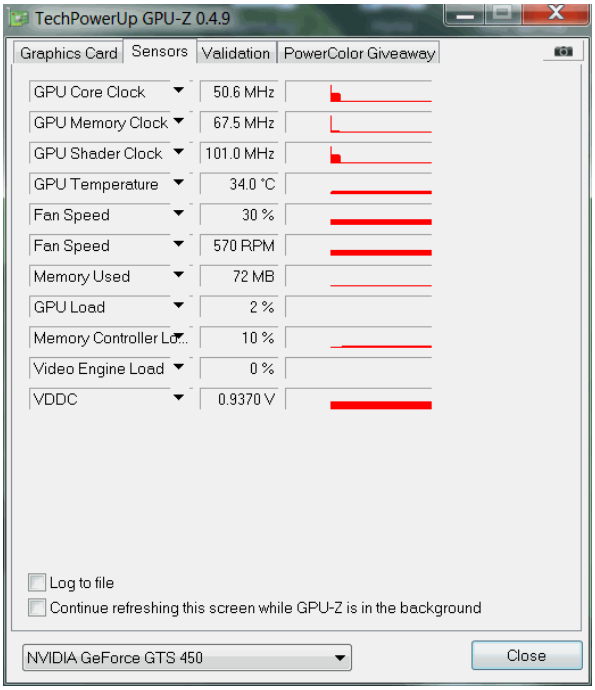
The packaging

Accessories: 1* User's Guider, 1* Driver CD, 1* 4- pin to 6-pin PCI-E power adaptor, 1* DVI to VGA adaptor

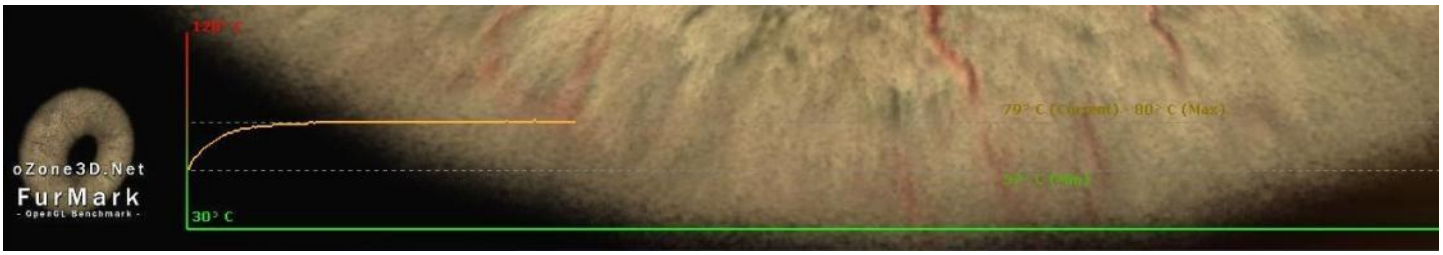
GPU-Z and FurMark for reference



GPU-Z of GTS 450: Graphics Card



Startup Temperature:34℃

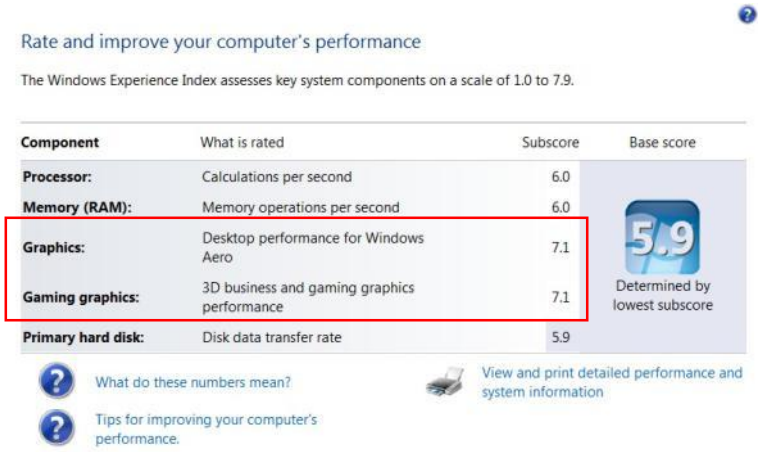


FurMark Full load: Max Temperature 80□

Windows 7 Experience Index

Graphics: 7.1

Gaming: 7.1



Platform: Intel Pentium E5300/ Colorful C.P45 TWIN/ 2*Kingston 2G DDR3 1333MHz/ Seagate ST3500418AS 500G/ Windows 7 Ultimate 32bit

Performance (For reference only)

Graphics card		GTX 460	GTX 460	GTS 450	GTS 450	GTS 450	HD 5770	HD 5750	HD 6850	HD 6870
Memory (MB/BIT)		768/192	1024/256	512/128	1024/128	1024/128	1024/128	512/128	1024/256	1024/256
Clock(MHZ)		675/1350/3600	675/1350/3600	783/1566/3608	783/1566/3608	830/1660/3800	850/4800	700/4600	775/4000	900/4200
3DMARK06 1.2.0	DX9/1920×1200/4AA	13630	14413	9940	9611	10162	11759	10447	15292	18719
3DMark Vantage 1.0.2	DX10/ Performance	P13933	P15193	P10269	P10206	P11359	P11339	P9325	P13695	P17141
	DX10/Extreme	X6181	X6549	X4060	X4168	X4671	X4624	X3593	X6038	X7574
Crysis V1.21	DX10 High /1900×1200/0 AA	43.725	44.985	29.13	29.285	30.935	36	30.18	49.17	57.405
	DX10 very High /1900×1200/0 AA	22.28	23.72	15.66	15.92	16.75	20.385	17	28.16	33.225
Crysis Warhead Benchmark	DX10/Enthusiast/1900*1200/AA 4x	19.54	21.6	11.04	13.66	14.27	16.6	8.43	24.03	28.3
Heaven Benchmark 2.0	DX11 High /1920×1200（fps/scores）	29.4/740	32.3/813	20.1/505	21.0/530	22.3/563	20.5/516	17.3/436	30.2/760	35.6/896
StareCraft 2	DX9/Ultra/2560×1600	47.1	35.32	29.4	33.6	35.3	31.16	26.7	40.2	54.8
Dirt2	DX11/High/1920×1080/4xMSAA	61.6	67	42.8	42.3	44.9	45.7	39.3	62.1	70.9

Note: --* denotes no testing yet due to temporary short of the specific graphic cards.

Test Platform	
VGA Driver:	197.45
Main Board /Chip /Driver:	ASUS P6T/X58/6.1.7600.16385
System BIOS:	V0707
CPU:	Intel core i7 920/2.67GHz
SIMM /DIMM:	Corsair 2G × 3 DDR3 1333Hz
Hard Disk Drive:	WD 1001FALS 1.0TB
Monitor:	DELL 3008 WFP-HC

POWER	Corsair CMPSU-620HX
OS:	Windows 7 Ultimate6.1(7600)